

WINGWALL TO WINGWALL, AT TOP OF CULVERT AS

LINE OF CONSTRUCTION FOR INLET BEVELING

NORMAL LINE OF CONSTR. (FOR OUTLETS)

PARAPET

4"

4"

-WINGWALL-

-BOX CULVERT-

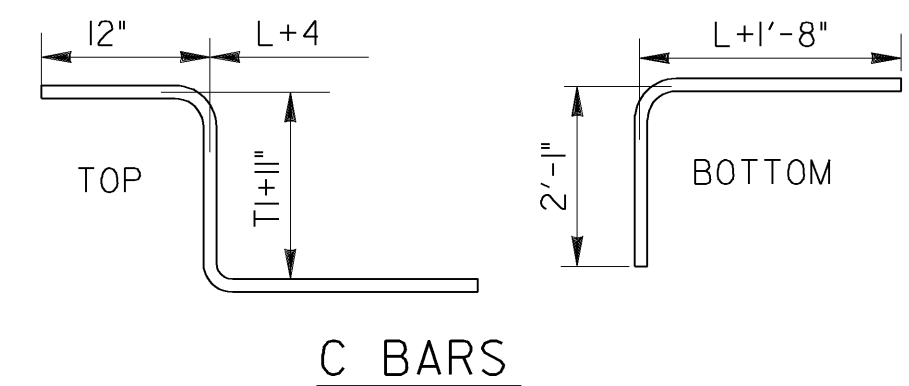
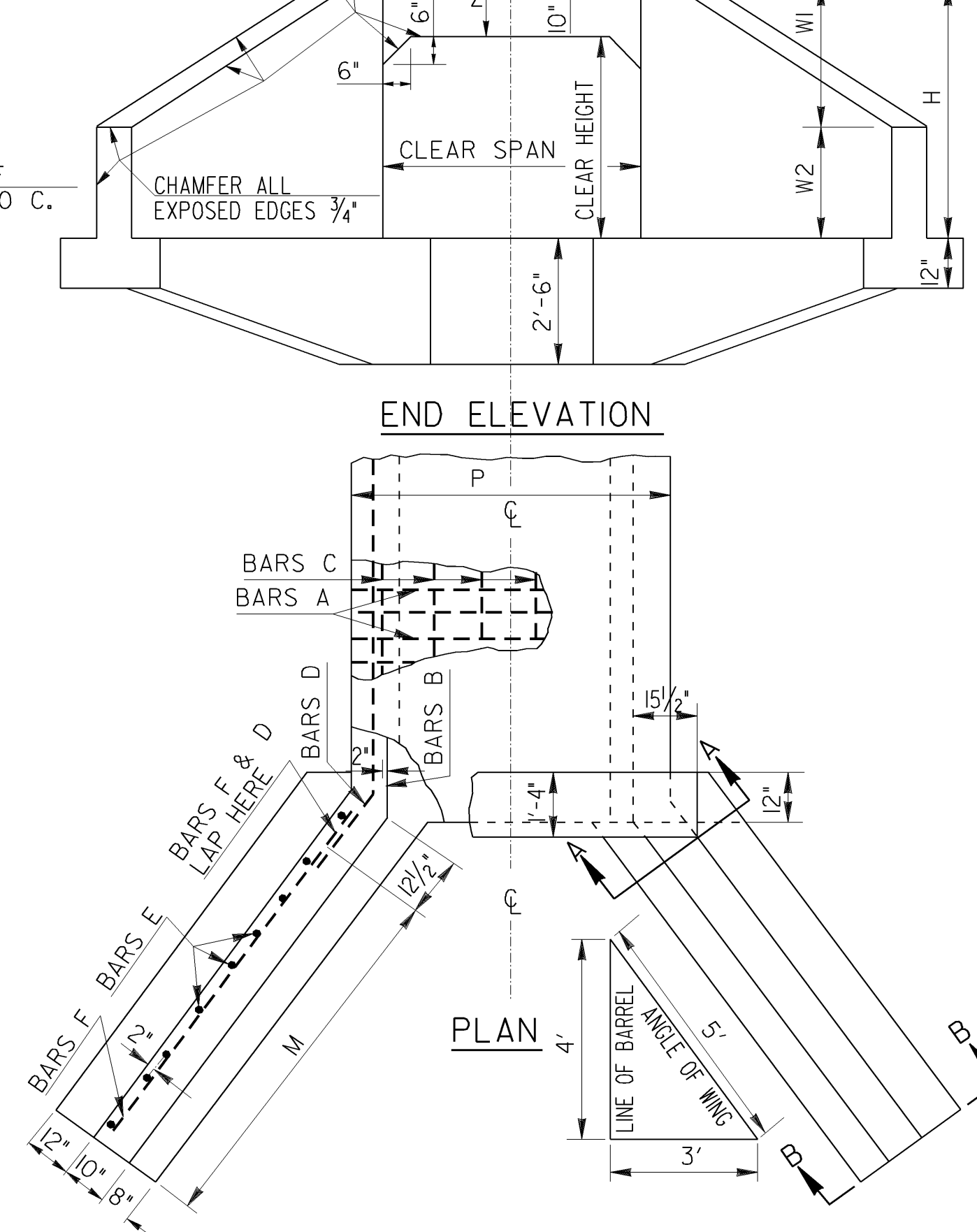
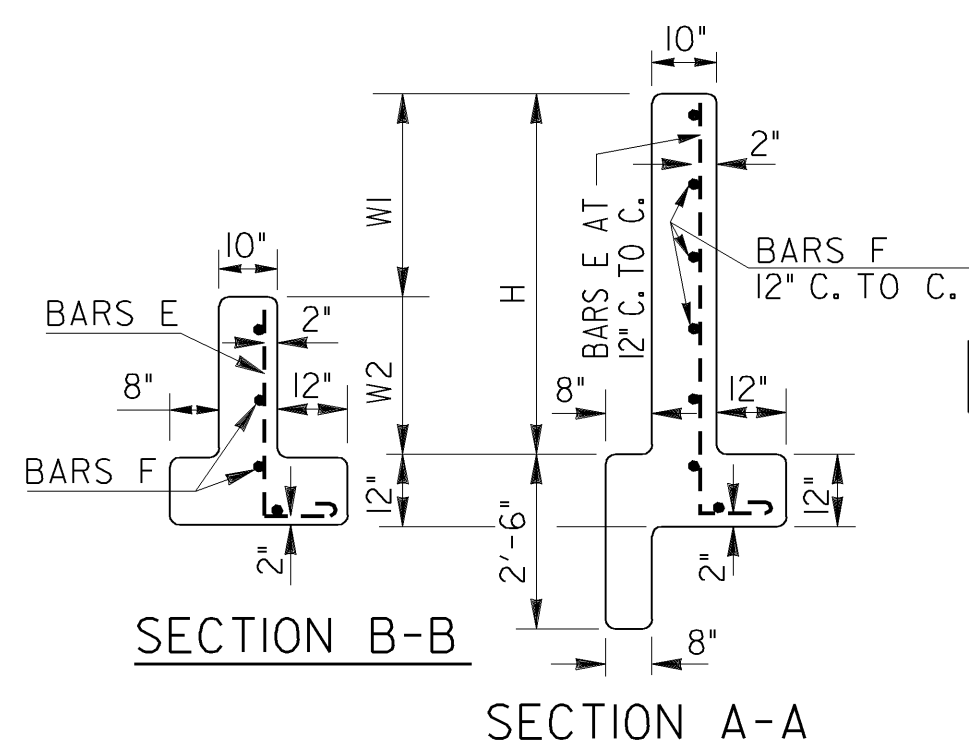


Diagram of a bent reinforcement bar (D BAR) showing dimensions: 1'-2 1/2" for the vertical leg, 2'-0" for the horizontal leg, and 1'-7 1/4" for the total horizontal length.

Diagram of a 180-degree pipe bend. The bend is shown in profile with a vertical centerline. The radius of the bend is labeled $R=4$ DIAM. and the thickness of the pipe wall is labeled $A=5$ DIAM. The angle of the bend is 180 degrees. The text "SYM. ABOUT CL" is written vertically to the right of the bend.

REQUIRED FOR 5' & 6' CLEAR SPANS FOR
DESIGN NO.2

[illegible]

ELEVATION

HOOK BARS A FOR
DESIGN NO. 2 FOR
5'x6' SPANS.

SECTION ON C_L BARRE

SLOPE TOP OF
CULVERT SLIGHTLY
FROM CENTER TO
EDGES FOR DRAINAGE

BARS A

CONSTRUCTION JOINT

BARS D AT
12" C. TO C.

BARS C AT
12" C. TO C.

BARS B AT
12" C. TO C.

2'x4' KEY JOINT

BARS A

BARS C AT
12" C. TO C.

SECTION OF BARREL

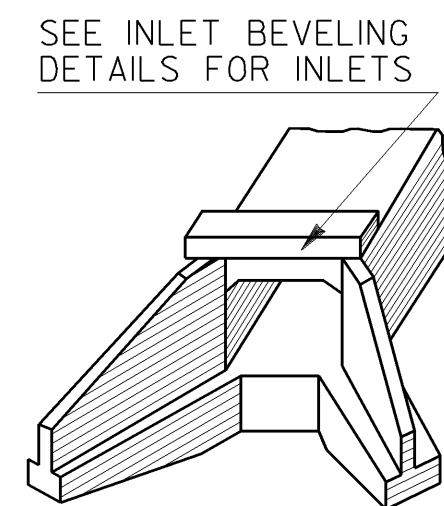
The diagram shows the elevation of a wing with the following dimensions and details:

- Overall Height:** H
- Top Flange Thickness:** $W1$
- Web Thickness:** $W2$
- Bottom Flange Thickness:** $1\frac{1}{2}"$
- Overall Width:** M
- Top Flange Width:** $12\frac{1}{2}"$
- Bottom Flange Width:** $12\frac{1}{2}"$
- Reinforcement:**
 - BARS E AT $12" C. TO C.$** (Top longitudinal bars)
 - BARS F AT $12" C. TO C.$** (Bottom longitudinal bars)
 - Transverse bars are shown in the web and bottom flange.

GENERAL NOTES:

1. CHAMFER-CHAMFER ALL EXPOSED EDGES $\frac{3}{4}$ ".
2. CONCRETE APRONS (SEPARATE STANDARD) ARE REQUIRED AT ALL OUTLETS. THE ENGINEER MAY ALLOW AN EXCEPTION FOR THE BED ROCK CONDITIONS. TOEWALLS UNDER PARAPETS MAY BE MODIFIED AT OUTLETS AS SHOWN ON STANDARD DETAIL FOR CONCRETE APRONS.
3. QUANTITIES FOR STEEL SHOWN ARE COMPUTED CONSIDERING ALL A,B,C,D,G AND H BARS AS PART OF BARREL QUANTITIES. STEEL PER LIN. FT. IS AN AVERAGE VALUE FOR A CULVERT OF 40' LENGTH ALLOWING ONE LAP IN LONGITUDINAL BARS.
4. PARAPETS AT INLETS SHALL BE CONSTRUCTED WITH A 4°/45° BEVEL.
5. COVER-CULVERT TO HAVE MINIMUM OF 1.0' BELOW BOTTOM OF BASE OR CONCRETE PAVEMENT.

LOADING-TYPICAL HS 20-44 AND/OR MILITARY LOADING.

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